

IN THE CLAIMS

What is claimed is:

- 1 1. A method of descrambling digital content comprising:
2 receiving scrambled digital content in a descrambler integrated circuit
3 receiving an encrypted control word in the descrambler integrated circuit;
4 decrypting the encrypted control word using a key stored in the
5 descrambler integrated circuit; and
6 descrambling the scrambled digital content in the descrambler integrated
7 circuit using the decrypted control word.
- 1 2. The method of claim 1, wherein the digital content is content contained in
2 a television transmission.
- 1 3. The method of claim 1, wherein the digital content is content downloaded
2 from the Internet.
- 1 4. The method of claim 1, wherein the control word is decrypted using
2 Triple DES.
- 1 5. The method of claim 1, wherein the encrypted control word is received
2 from a smart card.
- 1 6. The method of claim 5 further comprising encrypting the control word in
2 the smart card using a key stored in a register circuit of the smart card, wherein

3 the key stored in the register circuit of the smart card is associated with the key
4 stored in the register circuit of the descrambler integrated circuit.

1 7. The method of claim 1, wherein the encrypted control word is received
2 from a controlling entity connected to the descrambler integrated circuit by a
3 network.

1 8. The method of claim 7, wherein the controlling entity is selected from the
2 group comprising a headend server, an uplink, or a broadcast station.

1 9. The method of claim 7 wherein the control word is encrypted by the
2 controlling entity using a key associated with the key stored in the register
3 circuit of the descrambler integrated circuit.

1 10. The method of claim 1, wherein the encrypted control word is received
2 from a module.

1 11. The method of claim 10, wherein the module is selected from the group
2 comprising an NRSS-A module, an NRSS-B module, a POD module, and other
3 CA element.

1 12. An apparatus of descrambling digital content comprising:
2 means for receiving scrambled digital content in a descrambler
3 integrated circuit;
4 means for receiving an encrypted control word in the descrambler
5 integrated circuit;

6 means for decrypting the encrypted control word using a key stored in
7 the descrambler integrated circuit; and

8 means for descrambling the scrambled digital content in the descrambler
9 integrated circuit using the decrypted control word.

1 13. The apparatus of claim 12, wherein the digital content is content
2 contained in a television transmission.

1 14. The apparatus of claim 12, wherein the digital content is content
2 downloaded from the Internet.

1 15. The apparatus of claim 12, wherein the control word is decrypted using
2 Triple DES.

1 16. The apparatus of claim 12, wherein the encrypted control word is
2 received from a smart card.

1 17. The apparatus of claim 16 further comprising encrypting the control word
2 in the smart card using a key stored in a register circuit of the smart card,
3 wherein the key stored in the register circuit of the smart card is associated with
4 the key stored in the register circuit of the descrambler integrated circuit.

1 18. The apparatus of claim 12, wherein the encrypted control word is
2 received from a controlling entity connected to the descrambler integrated
3 circuit by a network.

1 19. The apparatus of claim 18, wherein the controlling entity is selected from
2 the group comprising a headend server, an uplink, or a broadcast station.

1 20. The apparatus of claim 12 wherein the control word is encrypted by the
2 controlling entity using a key associated with the key stored in the register
3 circuit of the descrambler integrated circuit.

1 21. The apparatus of claim 20, wherein the encrypted control word is
2 received from a module.

1 22. The apparatus of claim 18, wherein the module is selected from the
2 group comprising an NRSS-A module, an NRSS-B module, a POD module,
3 and other CA element.

1 23. An apparatus of descrambling digital content comprising:
2 a descrambler integrated circuit;
3 a receiver scrambled digital content in a descrambler integrated circuit,
4 and to receive an encrypted control word in the descrambler integrated circuit;
5 a decrypter the encrypted control word using a key stored in the
6 descrambler integrated circuit; and
7 a descrambler the scrambled digital content in the descrambler
8 integrated circuit using the decrypted control word.

1 24. The apparatus of claim 23, wherein the digital content is content
2 contained in a television transmission.

1 25. The apparatus of claim 23, wherein the digital content is content
2 downloaded from the Internet.

1 26. The apparatus of claim 23, wherein the control word is decrypted using
2 Triple DES.

1 27. The apparatus of claim 23, wherein the encrypted control word is
2 received from a smart card.

1 28. The apparatus of claim 27 further comprising encrypting the control word
2 in the smart card using a key stored in a register circuit of the smart card,
3 wherein the key stored in the register circuit of the smart card is associated with
4 the key stored in the register circuit of the descrambler integrated circuit.

1 29. The apparatus of claim 23, wherein the encrypted control word is
2 received from a controlling entity connected to the descrambler integrated
3 circuit by a network.

1 30. The apparatus of claim 29 wherein the control word is encrypted by the
2 controlling entity using a key associated with the key stored in the register
3 circuit of the descrambler integrated circuit.

1 31. The apparatus of claim 23, wherein the encrypted control word is
2 received from a module.

1 32. The apparatus of claim 31, wherein the module is selected from the
2 group comprising an NRSS-A module, an NRSS-B module, a POD module,
3 and other CA element.

1 33. The apparatus of claim 29, wherein the controlling entity is selected from
2 the group comprising a headend sever, an uplink, or a broadcast station.